MECX

12269 East Vassar Drive, Aurora, CO 80014
720.535.5502, Fax 720.535.7555

DATA ASSESSMENT FORM

Project Title:	Boeing SSFL RFI, Group 1A
Project Manager:	D. Hambrick
Analysis/Method:	TFH (EFH) by EPA Method 8015M
QC Level:	V[1]
SDG:	IPJ1276
Matrix:	Soil/Water
No. of Samples:	5
No. of Reanalyses/Dilutions:	0
Date Reviewed:	January 1, 2007
Reviewer:	K. Shadowlight
Reference:	USEPA *Contract Laboratory Program National Functional Guidelines For Organic Data Review* (2/94)
Samples Reviewed:	HVBF09S01, HVBF09S02, HVBF10S01, HVBF26S01, HVQW14E01

Data Validation Findings

	Findings	Qualifications
1. Sample Management	The samples were received at TestAmerica-Irvine within the temperature limits of 4° ±2°C, at 5°C. As the samples were couriered directly from the field to the laboratory, custody seals were not necessary. The COC was signed and dated by field and laboratory personnel and accounted for the samples and analysis in this SDG. The EPA ID for sample HVQW14E01 was corrected in a memo, dated 11/28/06, from MWH personnel. The soil samples were extracted within 14 days of collection, and the water sample was extracted within seven days of sample collection. All samples were analyzed within 40 days of extraction.	No qualifications were required.

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	Findings	Qualifications
4. Method Blanks water 6J19058-BLK1 soil 6J23091-BLK1	Target compounds EFH (C8-C30) and EFH (C8-C11) were detected in the method blanks at concentrations between the MDLs and the reporting limits. Target compound EFH (C8-C11) was also reported in the samples at concentrations less than five times the concentrations reported in the respective method blank. Target compound EFH (C8-C30) was rejected and not further evaluated (see section 10).	The results for EFH (C8-C11) were qualified as estimated nondetects, "UJ," in the samples of this SDG.
5. LCS/BS water 6J19058-BS1 soil 6J23091-BS1/BSD1	The recoveries for total EFH (C8-C30) were within the laboratory QC limits of 40-115% for the blank spikes. The RPD for EFH (C8-C30) was ≤25%.	No qualifications were required.
6. Surrogates	The sample surrogate recoveries were within the laboratory QC limits of 40-125%.	No qualifications were required.
7. MS/MSDs None	MS/MSD analyses were not performed for the samples in this SDG. Method accuracy and precision were evaluated based on LCS results.	
9. Field QC Samples FB: BSQW14F01 (SDG IPJ2606) ER: HVQW14E01 FD: HVBF09S01 and HVBF26S01	There were no detects in the field blank. Target compound EFH (C21-C30) was reported in the equipment rinsate; however, the target compound was not reported in the site samples of this SDG. There were no reportable target compound detects in the field duplicate pair (see section 4). The pair was considered to be in agreement.	No qualifications were required.
10. Other	The soil samples were reported in units of mg/kg on a dry-weight basis. Four EFH hydrocarbon ranges were reported: C8-C11, C12-C14, C15-C20, and C21-C30, as well as a total, C8-C30. The laboratory reported a detect between the MDL and the reporting limit.	The result for total EFH (C8-C30) was rejected, "R," in the samples of this SDG, as duplicate data, as the total result was represented by the four separate ranges. Any detect between the MDL and the reporting limit was qualified as estimated, "J.

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	Findings	Qualifications
Comments	None	None

[1] Level V validation consists of cursory review of the summary forms only; raw data is not evaluated. The reported values on the summary forms are presumed to be correct and no verification of the values from the raw instrument output is performed. Criteria not reviewed included instrument performance, analytical sequence, initial calibration, continuing calibration, compound identification, and compound quantification.

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TestAmerica
ANALYTICAL TESTING CORPORATION
17461 Derian Avenue, Suite 100, Irvine, CA 92614 (949) 261-1022 Fax:(949) 260-3297

MWH-Walnut Creek/Boeing Group 1A
1340 Treat Boulevard, Suite 300
Walnut Creek, CA 94596
Attention: Travis Peterson

Project ID: SSFL Group 1A
188565-Happy Valley North
Report Number: IPJ1276

Sampled: 10/12/06
Received: 10/12/06

EXTRACTABLE FUEL HYDROCARBONS (CADHS/8015 Modified)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers	Rev Qual	Qual code
Sample ID: IPJ1276-01 (HVBF09S01 - Soil)											
Reporting Units: mg/kg dry											
EFH (C8 - C30)	EPA 8015B	6J23102	2.0	5.7	**6.5**	1	10/23/06	10/26/06	B	R	#10
EFH (C8 - C11)	EPA 8015B	6J23102	2.0	5.7	**5.3**	1	10/23/06	10/26/06	B, J	UJ	B
EFH (C12 - C14)	EPA 8015B	6J23102	2.0	5.7	ND	1	10/23/06	10/26/06		U	
EFH (C15 - C20)	EPA 8015B	6J23102	2.0	5.7	ND	1	10/23/06	10/26/06		↓	
EFH (C21 - C30)	EPA 8015B	6J23102	2.0	5.7	ND	1	10/23/06	10/26/06			
Surrogate: n-Octacosane (40-125%)					*107 %*						
Sample ID: IPJ1276-02 (HVBF09S02 - Soil)											
Reporting Units: mg/kg dry											
EFH (C8 - C30)	EPA 8015B	6J23102	2.2	6.0	**13**	1	10/23/06	10/26/06	B	R	#10
EFH (C8 - C11)	EPA 8015B	6J23102	2.2	6.0	**8.0**	1	10/23/06	10/26/06	B	UJ	B
EFH (C12 - C14)	EPA 8015B	6J23102	2.2	6.0	ND	1	10/23/06	10/26/06		U	
EFH (C15 - C20)	EPA 8015B	6J23102	2.2	6.0	**2.6**	1	10/23/06	10/26/06	J	J	
EFH (C21 - C30)	EPA 8015B	6J23102	2.2	6.0	ND	1	10/23/06	10/26/06		U	
Surrogate: n-Octacosane (40-125%)					*101 %*						
Sample ID: IPJ1276-03 (HVBF10S01 - Soil)											
Reporting Units: mg/kg dry											
EFH (C8 - C30)	EPA 8015B	6J23091	2.0	5.6	**4.1**	0.999	10/23/06	10/24/06	B, J	R	#10
EFH (C8 - C11)	EPA 8015B	6J23091	2.0	5.6	**2.4**	0.999	10/23/06	10/24/06	B, J	UJ	B
EFH (C12 - C14)	EPA 8015B	6J23091	2.0	5.6	ND	0.999	10/23/06	10/24/06		U	
EFH (C15 - C20)	EPA 8015B	6J23091	2.0	5.6	ND	0.999	10/23/06	10/24/06		↓	
EFH (C21 - C30)	EPA 8015B	6J23091	2.0	5.6	ND	0.999	10/23/06	10/24/06			
Surrogate: n-Octacosane (40-125%)					*89 %*						
Sample ID: IPJ1276-09 (HVBF26S01 - Soil)											
Reporting Units: mg/kg dry											
EFH (C8 - C30)	EPA 8015B	6J23091	2.2	6.0	**6.2**	1	10/23/06	10/24/06	B	R	#10
EFH (C8 - C11)	EPA 8015B	6J23091	2.2	6.0	**4.2**	1	10/23/06	10/24/06	B, J	UJ	B
EFH (C12 - C14)	EPA 8015B	6J23091	2.2	6.0	ND	1	10/23/06	10/24/06		U	
EFH (C15 - C20)	EPA 8015B	6J23091	2.2	6.0	ND	1	10/23/06	10/24/06		↓	
EFH (C21 - C30)	EPA 8015B	6J23091	2.2	6.0	ND	1	10/23/06	10/24/06			
Surrogate: n-Octacosane (40-125%)					*72 %*						

Qual code

Level V

TestAmerica - Irvine, CA
Nicholas Marz For Michele Chamberlin
Project Manager

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ANALYTICAL TESTING CORPORATION
17461 Derian Avenue, Suite 100, Irvine, CA 92614 (949) 261-1022 Fax:(949) 260-3297

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EXTRACTABLE FUEL HYDROCARBONS (EPA 3510C/8015 CADHS Modified)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers	Rev Qual	Qual Code
Sample ID: IPJ1276-10 (HVQW14E01 - Water)											
Reporting Units: mg/l											
EFH (C8 - C30)	EPA 8015B	6J19058	0.043	0.48	**0.30**	0.962	10/19/06	10/19/06	J, B	R	*10
EFH (C8 - C11)	EPA 8015B	6J19058	0.043	0.48	**0.056**	0.962	10/19/06	10/19/06	J, B	UJ	B
EFH (C12 - C14)	EPA 8015B	6J19058	0.043	0.48	ND	0.962	10/19/06	10/19/06		U	
EFH (C15 - C20)	EPA 8015B	6J19058	0.043	0.48	ND	0.962	10/19/06	10/19/06		U	
EFH (C21 - C30)	EPA 8015B	6J19058	0.043	0.48	**0.20**	0.962	10/19/06	10/19/06	J	J	
Surrogate: n-Octacosane (40-125%)					*61 %*						

Level IV

TestAmerica - Irvine, CA
Nicholas Marz For Michele Chamberlin
Project Manager

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